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Efforts in the Negative Momentum Compaction Regime at KARA

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New operation modes are often considered during the development of new synchrotron light sources. An understanding of the instabilities involved is inevitable for a successful operation of these schemes. At the test facility KARA (Karlsruhe Research Accelerator), new modes can be implemented and tested employing a variety of performant beam diagnostics devices which allow the investigation of instabilities in those regimes. Recently, multiple negative momentum compaction optics have been established at KARA with the possibility to choose from a variety of momentum compaction factors. This contribution presents a quick overview of the status and shows first measurements in this regime.

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